

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-27 (canceled)

28. (currently amended) A baffle for a mixing dome housing, said baffle comprising:

a leading upstream surface portion edge tapered toward the housing;

a trailing downstream surface portion edge wider than said upstream surface portion edge; and

an arcuate edge portion connecting said upstream and downstream surface portions edges.

29. (currently amended) The baffle of claim 28 wherein said baffle runs about 210 degrees from said leading upstream surface portion ~~tapered downstream end~~ to said trailing downstream surface portion upstream edge.

30. (original) The baffle of claim 28 wherein said baffle has a surface area that is about one-half the cross sectional area of the housing.

31. (original) The baffle of claim 28 wherein said baffle has a paisley shape.

32. (currently amended) A baffle for a mixing dome housing, said baffle comprising:

an outer edge;

an inner edge;

a downstream end; and

an upstream tapered end,

wherein said outer ~~inner~~ edge connects said upstream tapered end and said downstream end, and said outer ~~inner~~ edge is arcuate and configured to be attached to said mixing dome housing, and

further wherein said inner ~~outer~~ edge converges ~~tapers~~ toward said outer ~~inner~~ edge thereby defining said upstream tapered end.

Claim 33. (new) A baffle for a mixing dome housing, said baffle comprising:

an upstream portion;

a downstream portion;

an outer edge arcuately extending from the upstream portion to the downstream portion, the outer edge configured to be attached to the mixing dome housing; and

an inner edge arcuately extending from the upstream portion to the downstream portion, the inner edge on the side of the baffle opposite the outer edge, the baffle configured such that the distance between the inner edge and the outer edge at the upstream portion is a first distance and the distance between the inner edge and the outer edge at the downstream portion is a second distance, the second distance greater than the first distance.

Claim 34. (new) The baffle of claim 33, wherein said outer edge is configured such that when the baffle is attached to the mixing dome housing, the outer edge extends in an arc of about 210 degrees around the inner surface of the mixing dome.

Claim 35. (new) The baffle of claim 33, further comprising:

a first surface defined by the inner edge and the outer edge, the first surface having a surface area of about one-half of the cross-sectional area of the mixing dome housing.

Claim 36. (new) The baffle of claim 33, further comprising:

a first surface defined by the inner edge and the outer edge, wherein the first surface has a paisley shape when the baffle is attached to the mixing dome housing and the first surface is viewed from a point upstream of the upstream portion of the baffle.